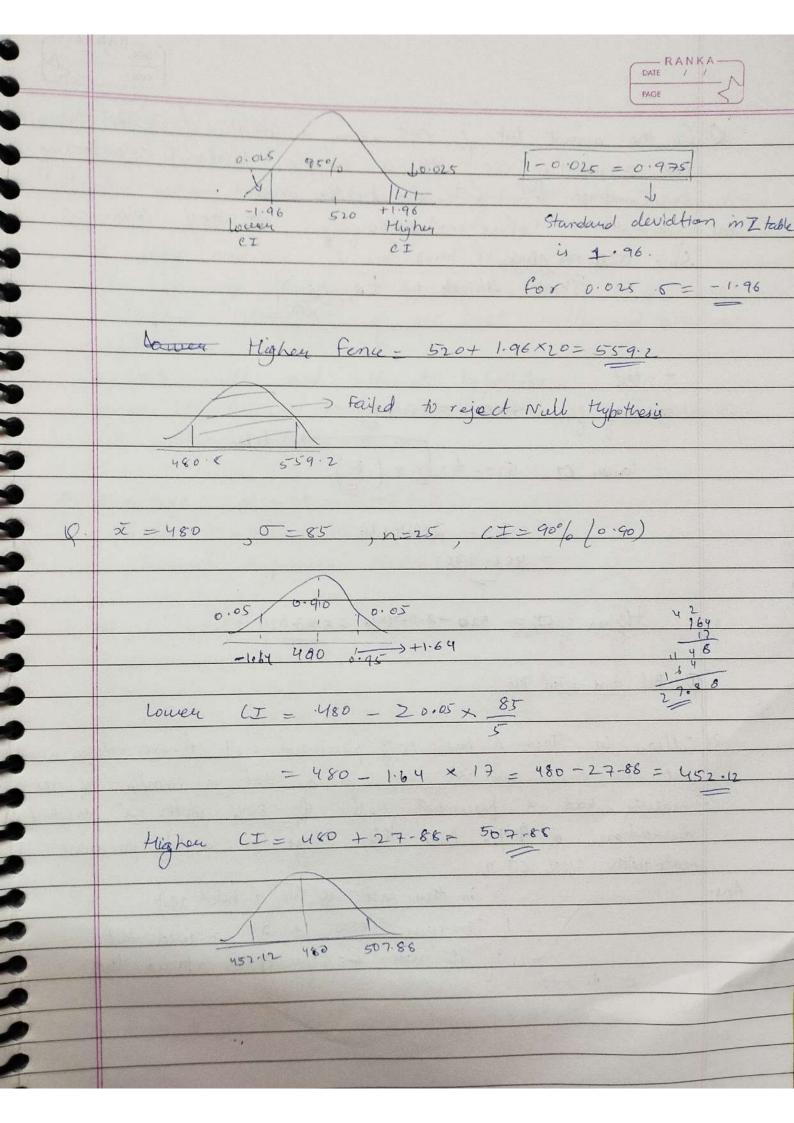
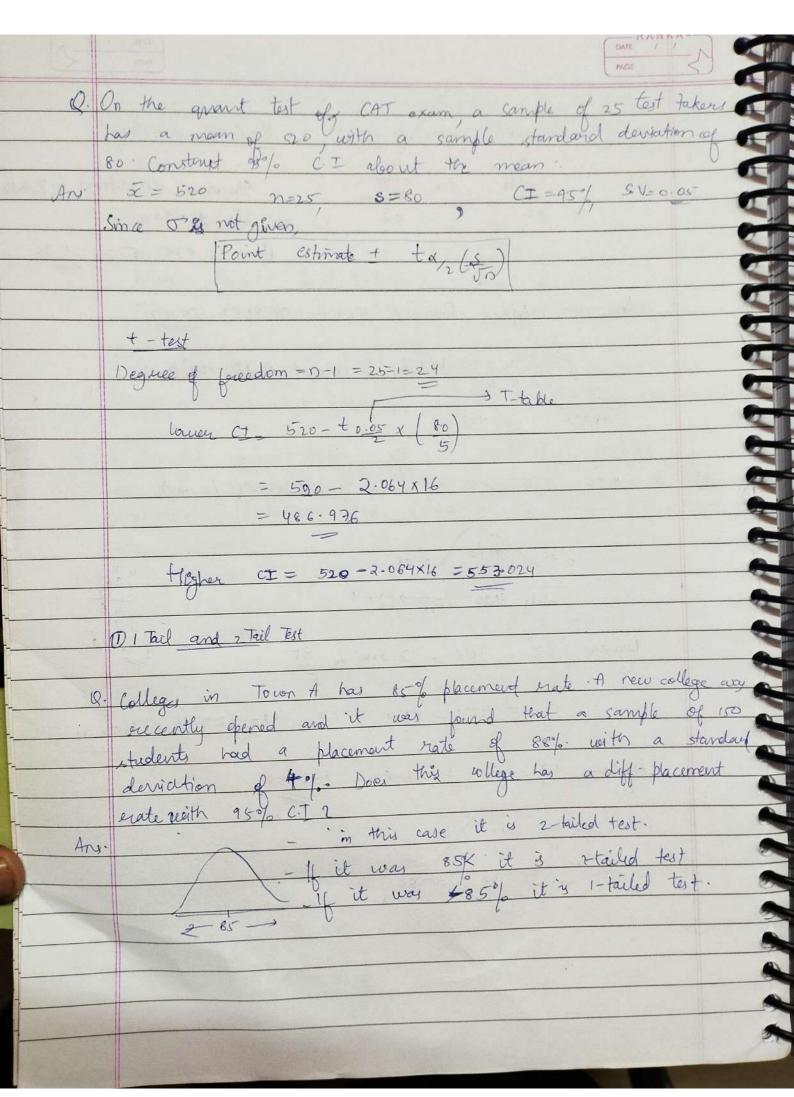
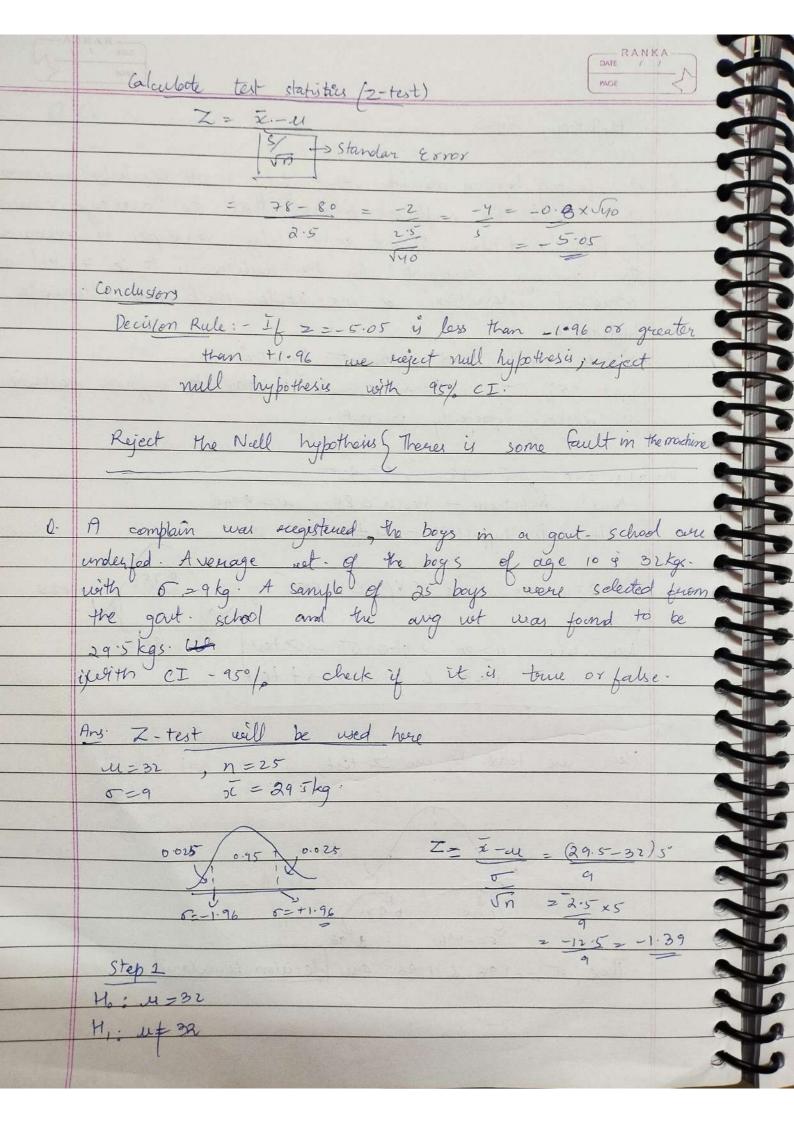


	DATE / / PAGE	
	Point Estimate + Margin of Exro = Parameter => population	
	with respect to CI,	
	Mighon fence: - Point Estimate - Margin of Evror	1
	Trangén of Exxos = [Zx/2 X 5] > Stemolard Ernor X > Significance value	
Q-	* On the grant test of CAT exams a sample of at test takes has a mean of 520 with a simple standard deviation of 100 Construct a 95% CI about the man?	
	the man?	
Hy	$-m = 25$ $\bar{x} = 520$ $CI = 95\%$	
	5V=1-0.95=0.05	
	also trade I when the section of the	
	450/2	
	Jouer CI Szo Higher CI	
	Louise Ca	
Call Co	Vouen CI = Point estimate - Margin of Error	
	= 520 - Z0.05/ 100 - 520 - Z0.05/ 100	
	= 520 - Zo.og 5 x20	
37,000	$=520-1.96\times20$	
	= 520 - 1.96×20 - 480.8	





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	Hypothesia Testing
	A factory has a machine that fill 80 ml of baby medicines in a bottle. An employee believes that the average amount of baby medicine is not com! Using resamples he measure the average amount by the machine is to be 74 ml with standard deviation of 2.5. State null and alternate
	hypothesis.  a) State rull and alternate hypothesis  b) At 95% CT, is there enough evidence to support machine is workers, properly or not.
Ans:	a) n = 40, x = 78, S = 2.5 Null hypothesis - Mean = 80, u = 80ml Alternate hypothesis - u + 80
	b) CJ = 0.95 & S.V(X) = 0.05 0.025
E	Note: when $n \ge 20$ or given $5 \rightarrow 2$ test 80 $n < 30$ & give $s \rightarrow t$ test
	Here we have to use 2-test,
	0.025
13	These, 6 1.96 & 1.96 are decision boundary
E	There, of the state of the stat



-1.39 51.96 . cere needt null hypothesis. Boys are being jed properly A factory manufactures care with a warranty of 5 years of more on the engine and transmission. In engine helieve that engine or transmission will malfunction in less than tyears Me took a sample of yo cars and finds the a time to be 46 years with a standard deviation of a standard deviation of a standard the null & alternate hypothesis. a) At a 2% significant level is there enough evidence-support the idea that the waveranty should be revised Ans Step 1 Ho: 425 H1: 45 a) n=40, x=4-8, s=0.5 SV X = 0.02 CI = 0.98  $= -0.2 \times \sqrt{40} = -0.4 \times \sqrt{40}$ 2 -2.529 In this case we will eveject mell Hypothesis.

